

09/763282

C02 Rec'd PCT/PTO 20 FEB 2001

**FORM PTO-1449 TO BE FILED WITH
INFORMATION DISCLOSURE STATEMENT**

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No. ENV1298-002I Serial No. Not Yet Rec'd

INFORMATION
DISCLOSURE STATEMENT
BY APPLICANTS

Roger G. Etter
Applicant

February 20, 2001
Filing Date

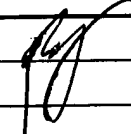
Group Art Unit

Examiner's name

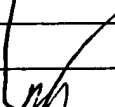
U.S. PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name	Class/Sub-class
<i>gj</i>	Re 20,011	06/36	Pelzer	202/15
	1,831,719	11/31	Pelzer	
	1,873,024	08/32	Pelzer	
	2,881,130	04/59	Pfeiffer et al.	208/127
	3,617,480	11/71	Kneel	208/50
	3,661,543	05/72	Saxton	8/206
	3,702,816	11/72	Bachmann et al.	
	3,775,290	11/73	Peterson et al.	208/50
	3,775,294	11/73	Peterson et al.	208/89
	3,816,084	06/74	Moser, Jr. et al.	05/72
	3,852,047	12/74	Schlinger et al.	44/24
	3,896,023	07/75	Ozaki et al.	208/46
	3,917,564	08/74	Meyers	208/131
	3,932,587	01/76	Grantham et al.	423/242
	4,043,898	08/77	Kegler	208/50
	4,049,538	09/77	Hayashi et al.	208/50
	4,055,484	10/77	Blaser et al.	208/127
	4,096,097	06/78	Yan	252/510
	4,100,035	06/78	Smith	07/78
	4,178,229	12/79	McConaghy et al.	208/50
	4,188,277	02/80	Martin	204/190
	4,198,380	04/80	Kohl	423/242
	4,269,696	05/81	Metrailler	208/120
	4,295,956	10/81	Metrailler	208/127
<i>msj</i>	4,302,324	11/81	Chen et al.	208/131

RE 20,011	Pelzer
1,831,719	Pelzer
1,873,024	Pelzer
2,881,130	Pfeiffer et al.
3,617,480	Keel
3,661,543	Saxton
3,702,516	Luckenbach
3,702,816	Bachmann et al.
3,759,676	Lahn
3,775,290	Pettersen et al.
3,775,294	Peterson et al.
3,816,084	Moser, Jr. et al.
3,852,047	Schlenger et al.
3,896,023	Ozaki et al.
3,917,564	Meyers
3,932,587	Grantham et al.
4,043,898	Kegler
4,049,538	Hayashi et al.
4,055,484	Blaser et al.
4,096,097	Yan
4,100,035	Smith
4,178,229	McConaghy et al.
4,188,277	Martin
4,198,380	Kohl
4,269,696	Metrailler
4,295,956	Metrailler
4,302,324	Chen et al.
4,312,742	Hayashi
4,364,741	Villa
4,388,152	Wasson et al.
4,441,887	Funk
4,443,415	Queneau et al.
4,477,259	Funk
4,478,602	Kelley et al.
4,479,804	Chen et al.



4,481,101	Yan
4,490,171	Suzuki et al.
4,519,898	Allan
4,521,227	Calderon et al.
4,547,284	Sze et al.
4,551,232	Calderon et al.
4,631,025	Casper et al.
4,666,585	Figgins et al.
4,853,106	Grove et al.
4,874,505	Bartilucci et al.
5,009,767	Bartilucci et al.
5,034,030	Miller et al.
5,114,564	Goyal
5,114,566	Naeger et al.
5,165,902	Bortz et al.
5,215,557	Johnson et al.
5,246,680	Pikkujämsä
5,258,115	Heck et al.
5,277,795	Thornhill et al.
5,339,755	Smith
5,350,503	Freymeyer et al.
5,439,658	Johnson et al.
5,470,556	Samish
5,490,918	Meek
5,496,729	Monticello
5,591,326	Shih
5,635,149	Klingspor et al.
5,651,948	Meyers et al.



FOREIGN PATENT DOCUMENTS

Country	Patent No.	Inventor(s)
	NONE	

OTHER DOCUMENTS

1. Fletcher, Peter, Delayed Coking, Chem. Engineer, Sept/Oct(1983), 21-23.
2. Janssen et al., Improved Coking Design Can Up Liquid Yields, Oil & Gas J. (June 25, 1984) 79-83.
3. Lieberman, Norman, Shot Coke: Its Origins and Prevention, Oil & Gas J. (July 8, 1985) 45-46.
4. Lieberman, Norman, Good Operating Techniques Improve Coker Yeild, Increase Gas-Oil Production, Oil & Gas J. (March 10, 1986) 53-54.
5. Lieberman, Norman, Procedure Reduces Coke Cuttng Time for Large Drums, Gas & Oil J. (Nov. 24, 1986) 85-86.
6. Barnett, Jack, Desalters Can Remove More Than Salts and Sediment, Oil & Gas J. (Apr. 11, 1988) 43-49.
7. Archuletta et al., Cooperative Corrosion Control and Treatment Program Proves Effective, Gas & Oil J. (Aug. 6, 1990) 60-68.
8. Elliott, John, Design Operation Factors Can Up Coker Liquid Yields, Gas & Oil J. (Feb. 4, 1991) 41-44.
9. Filtration Method Efficiently Desalts Crude In Commercial Test, Gas & Oil J. (May 17, 1993) 59-60.
10. Bansal et al., Improve Your Coking Process, Hydrocarbon Processing (Feb. 1994) 63-66.
11. Stefani, A., Debottleneck Delayed Cokers For Greater Profitability, Hydorcarbon Processing (June 1996) 99-103.
12. Harris, J.R., Use Desalting For FCC Feedstocks, Hydrocarbon Processing (Aug. 1996) 63-68.
13. Dickenson, et al., Refiner Options for Converting and Utilizing Heavy Fuel Oil, Hydorcarbon Processing (Feb. 1997) 57-62.
14. Auxillary Equipment, Corrosion Focus of Refining Meeting, Oil & Gas J. (Apr. 4, 1994).
15. Wagoner et al., Bruning Profiles For Solid Fuels, Amer. Soc. Mech. Eng. (Aug. 7, 1967) 1-8.
16. Reid, William, Ash Chemistry And Its Effect In Broiler Furnances, Elec. Power Res. Inst. (Dec. 2, 1980) 1-13.


17. Burning Petroleum Coke: Boiler/Complex FGD or Fluid-Bed Combustor?, (Jul 7, 1983).
18. Lieberman, Norman, Time for Coking Cycle Can Be Routinely Halved, Oil & Gas J. (Aug. 29, 1983) 39-44.
19. Delayed Coking, Hydrocarbon Processing (Sept. 1984) 113.
20. Kronenberger et al., Troubleshooting the Refinery Desalter Operation, Materials Performance (Jul 1986) 9-17.
21. Muzio et al., Dry Sorbent Emission Control Technologies, JAPC Assoc. (May 1987) 642-654.
22. Deepwater Fires 100% Coke, Sells All FGD Gypsum Product, Power (Oct. 1988).
23. Lieberman, Norman, Frequently Asked Questions On Coke Quality Answered, Oil & Gas J. (Mar. 27, 1989) 67-69.
24. Makansi, Jason, Clean Air Act Amendments: The Engineering Response, Power (Jun 1991) 11-60.
25. Herzog et al., Feasibility, Modeling and Economics of Sequestering Power Plant CO₂ Emissions In the Deep Ocean, Envior. Progress Vol. 10 (Feb. 1991) 64-74.
26. Elliott, J.D., Maximize Distillate Liquid Products, Hydrocarbon Proc. (Jan 1992) 75-80.
27. Sulfur Dioxide Control, Steam 40 (1992) Chapter 35.
28. Fuel Ash Effects on Boiler Design and Operation, Steam 40 (1992) Chapter 20(pp1-28).
29. Sources of Chemical Energy, Steam 40 (1992) Chapter 8.
30. Burners and Combustion Systems for Pulverized Coal, Steam 40 (1992) Chapter 13.
31. Kent, James, Handbook of Industrial Chemistry, Published by Van Norstrand Reinhold (1992).
32. Rittenhouse, R.C., Action Builds On The Road To CAA Compliance (Part II), Power Eng. (Jun 1992) 43-50.
33. Batra et al, Desing Process Equipment for Corrosion Control, Chem. Eng. Prog. (May 1993) 68-76.

09/763282

34. Livengood et al., FG Technologies for Combined Control of SO₂ and NO_x, Power Eng. (Jan 1994) 38-42.
35. Torrens et al., Electric Utility Response to the Clean Air Act Amendments, Power Eng. (Jan 1994) 43-47.
36. Coke Quality, Oil & Gas J. (May 2, 1994) 114-115.
37. Wolsky et al, CO₂ Capture From the Flue Gas of Conventional Fossil-Fuel-Fired Power Plants, Envir. Progress Vol. 13 (Aug. 1994) 214-219.
38. Chue et al., Comparison of Activated Carbon and Zeolite 13X for CO₂ Recovery From Flue Gas by Pressure Swing Adsorption, Amer. Chem. Soc. (1995) 591-598.
39. Akai et al., Performance Evaluation of Fossil Power Plant With CO₂ Recovery and Sequestering System, Energy Convers. Mgmt. Vol. 36 Nos. 6-9(1995) 801-804.
40. Coking/Catalytic Cracking/Catalytic Reforming, HydroCarbon Processing (Oct. 1996).
41. Refining 1996, HydroCarbon (Nov. 1996).
42. Sincero & G.A. Sincero, Environmental Engineering A Design Approach, Types of Control (625-633).
43. Bisio & A. Boots, Air Pollution Control Methods, The Wiley Encycloedia Energy and the Environment (Vol 1), 85-91.
44. Kiely, Gerard, Environmental Engineering, (344-345) & (757-776).
45. Handbook of Petroleum Refining Processes, (7/16- 7/29).
46. Delayed Cooking, Chapter 5 (52-64).
47. Kirk-Othmer Ency. of Chem. Tech. 3rd Ed., Vol. 17 (194-219).
48. Kirk-Othmer Ency. of Chem Tech., 4th Ed., Vol 18 (433-469).
49. Ency. of Chem. Processing and Design, Vol 10 (1-41).

4,312,742	01/82	Hayashi	208/50
4,364,741	12/82	Villa	44/51
4,388,152	06/83	Wasson et al.	201/6
4,441,887	04/84	Funk	44/51
4,443,415	04/84	Queneau et al.	423/68
4,447,259	10/84	Funk	44/51
4,478,602	10/84	Kelley et al.	44/51
4,479,804	10/84	Chen et al.	44/1 SR
4,481,101	11/84	Yan	208/50
4,490,171	12/84	Suzuki et al.	75/42
4,519,898	05/85	Allan	208/131
4,521,277	06/85	Calderon et al.	196/46
4,547,284	10/85	Sze et al.	208/50
4,551,232	11/85	Calderon et al.	208/92
4,631,025	12/86	Casper et al.	432/15
4,666,585	05/87	Figgins et al.	208/131
4,853,106	08/89	Grove et al.	208/131
4,874,505	10/89	Bartilucci et al.	208/131
5,009,767	04/91	Bartilucci et al.	208/85
5,034,030	07/91	Miller et al.	55/96
5,114,564	05/92	Goyal	208/131
5,114,566	05/92	Naeger et al.	208/289
5,165,902	11/92	Bortz et al.	423/235
5,215,557	06/93	Johnson et al.	55/122
5,246,680	09/1993	Pikkujämsä	423/244.07
5,258,115	11/93	Heck et al.	208/131
5,277,795	01/94	Thornhill et al.	208/251
5,339,755	08/94	Smith	110/345
5,350,503	09/94	Frey Meyer et al.	208/131
5,470,556	11/95	Samish	423/243.08
5,439,658	08/95	Johnson et al.	423/243.07
5,490,918	02/96	Meek	208/131
5,496,792	03/96	Monticello	435/282
5,591,326	01/97	Shih	208/251 R
5,635,149	06/97	Klingspor et al.	423/243.08
5,651,948	07/97	Myers et al.	423/244.07

FOREIGN PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Country/Name	Translation? yes/no
	NONE			

OTHER DOCUMENTS

1. Fletcher, Peter, Delayed Coking, *Chem. Engineer*, Sept/Oct(1983), 21-23.
2. Janssen et al., Improved Coking Design Can Up Liquid Yields, *Oil & Gas J.* (June 25, 1984) 79-83.
3. Lieberman, Norman, Shot Coke: Its Origins and Prevention, *Oil & Gas J.* (July 8, 1985) 45-46.
4. Lieberman, Norman, Good Operating Techniques Improve Coker Yield, Increase Gas-Oil Production, *Oil & Gas J.* (March 10, 1986) 53-54.
5. Lieberman, Norman, Procedure Reduces Coke Cutting Time for Large Drums, *Gas & Oil J.* (Nov. 24, 1986) 85-86.
6. Barnett, Jack, Desalters Can Remove More Than Salts and Sediment, *Oil & Gas J.* (Apr. 11, 1988) 43-49.
7. Archuletta et al., Cooperative Corrosion Control and Treatment Program Proves Effective, *Gas & Oil J.* (Aug. 6, 1990) 60-68.
8. Elliott, John, Design Operation Factors Can Up Coker Liquid Yields, *Gas & Oil J.* (Feb. 4, 1991) 41-44.
9. Filtration Method Efficiently Desalts Crude In Commercial Test, *Gas & Oil J.* (May 17, 1993) 59-60.
10. Bansal et al., Improve Your Coking Process, *Hydrocarbon Processing* (Feb. 1994) 63-66.
11. Stefani, A., Debottleneck Delayed Cokers For Greater Profitability, *Hydrocarbon Processing* (June 1996) 99-103.
12. Harris, J.R., Use Desalting For FCC Feedstocks, *Hydrocarbon Processing* (Aug. 1996) 63-68.
13. Dickenson, et al., Refiner Options for Converting and Utilizing Heavy Fuel Oil, *Hydrocarbon Processing* (Feb. 1997) 57-62.
14. Auxillary Equipment, Corrosion Focus of Refining Meeting, *Oil & Gas J.* (Apr. 4, 1994).

15. Wagoner et al., Bruning Profiles For Solid Fuels, Amer. Soc. Mech. Eng. (Aug. 7, 1967) 1-8.
16. Reid, William, Ash Chemistry And Its Effect In Broiler Furnances, Elec. Power Res. Inst. (Dec. 2, 1980) 1-13.
17. Burning Petroleum Coke: Boiler/Complex FGD or Fluid-Bed Combustor?, (Jul 7, 1983).
18. Lieberman, Norman, Time for Coking Cycle Can Be Routinely Halved, Oil & Gas J. (Aug. 29, 1983) 39-44.
19. Delayed Coking, Hydrocarbon Processing (Sept. 1984) 113.
20. Kronenberger et al., Troubleshooting the Refinery Desalter Operation, Materials Performance (Jul 1986) 9-17.
21. Muzio et al., Dry Sorbent Emission Control Technologies, JAPC Assoc. (May 1987) 642-654.
22. Deepwater Fires 100% Coke, Sells All FGD Gypsum Product, Power (Oct. 1988).
23. Lieberman, Norman, Frequently Asked Questions On Coke Quality Answered, Oil & Gas J. (Mar. 27, 1989) 67-69.
24. Makansi, Jason, Clean Air Act Amendments: The Engineering Response, Power (Jun 1991) 11-60.
25. Herzog et al., Feasibility, Modeling and Economics of Sequestering Power Plant CO₂ Emissions In the Deep Ocean, Envior. Progress Vol. 10 (Feb. 1991) 64-74.
26. Elliott, J.D., Maximize Distillate Liquid Products, Hydrocarbon Proc. (Jan 1992) 75-80.
27. Sulfur Dioxide Control, Steam 40 (1992) Chapter 35.
28. Fuel Ash Effects on Boiler Design and Operation, Steam 40 (1992) Chapter 20(pp1-28).
29. Sources of Chemical Energy, Steam 40 (1992) Chapter 8.
30. Burners and Combustion Systems for Pulverized Coal, Steam 40 (1992) Chapter 13.
31. Kent, James, Handbook of Industrial Chemistry, Published by Van Norstrand Reinhold (1992).
32. Rittenhouse, R.C., Action Builds On The Road To CAA Compliance (Part II), Power Eng. (Jun 1992) 43-50.


33. Batra et al, Desing Process Equipment for Corrosion Control, Chem. Eng. Prog. (May 1993) 68-76.
34. Livengood et al., FG Technologies for Combined Control of SO₂ and NO_x, Power Eng. (Jan 1994) 38-42.
35. Torrens et al., Electric Utility Response to the Clean Air Act Amendments, Power Eng. (Jan 1994) 43-47.
36. Coke Quality, Oil & Gas J. (May 2, 1994) 114-115.
37. Wolsky et al, CO₂ Capture From the Flue Gas of Conventional Fossil-Fuel-Fired Power Plants, Envr. Progress Vol. 13 (Aug. 1994) 214-219.
38. Chue et al., Comparison of Activated Carbon and Zeolite 13X for CO₂ Recovery From Flue Gas by Pressure Swing Adsorption, Amer. Chem. Soc. (1995) 591-598.
39. Akai et al., Performance Evaluation of Fossil Power Plant With CO₂ Recovery and Sequestering System, Energy Convers. Mgmt. Vol. 36 Nos. 6-9(1995) 801-804.
40. Coking/Catalytic Cracking/Catalytic Reforming, HydroCarbon Processing (Oct. 1996).
41. Refining 1996, HydroCarbon (Nov. 1996).
42. Sincero & G.A. Sincero, Enviornmental Engineering A Design Approach, Types of Control (625-633).
43. Bisio & A. Boots, Air Pollution Control Methods, The Wiley Encypoledia Energy and the Environment (Vol 1), 85-91.
44. Kiely, Gerard, Enviornmental Engineering, (344-345) & (757-776).
45. Handbook of Petroleum Refining Processes, (7/16- 7/29).
46. Delayed Cooking, Chapter 5 (52-64).
47. Kirk-Othmer Ency. of Chem. Tehc. 3rd Ed., Vol. 17 (194-219).
48. Kirk-Othmer Ency. of Chem Tech., 4th Ed., Vol 18 (433-469).
49. Ency. of Chem. Processing and Design, Vol 10 (1-41).

02 Rec'd PCT/PTO 20 FEB 2001

Examiner <i>B. Yildirim</i>	Date Considered <i>9/30/03</i>
-----------------------------	--------------------------------

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.10	
"Express Mail" Number: EL622262552US	Date of Deposit: February 20, 2001
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as U.S. Express Mail in an envelope addressed to Box PCT, Assistant Commissioner for Patents, Washington, D.C. 20231.	
 Sheri L. Burke	